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Application No. 10/758,869

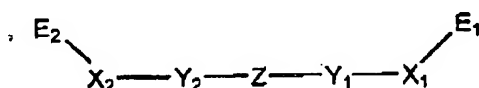
AMENDMENTS TO THE CLAIMS

A detailed listing of all claims that are, or were, in the present application, irrespective of whether the claim(s) remains under examination in the application are presented below. The claims are presented in ascending order and each includes one status identifier.

What is claimed is:

1. (Original) An organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(a) a charge transport material having the formula



where Y_1 and Y_2 comprise, each independently, a carbazoyl group;

X_1 and X_2 , each independently, have the formula $-(CH_2)_m-$, branched or linear, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups is optionally replaced by O, S, N, C, B, P, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, an amide group, an NR_3 group, a CR_4 , or a CR_5R_6 group where R_3 , R_4 , R_5 , and R_6 are, independently, a bond, H, hydroxyl, thiol, carboxyl, an amino group, an alkyl group, an alkenyl group, a heterocyclic group, an aromatic group, or part of a ring;

E_1 and E_2 comprise, each independently, an epoxy group; and

Z is a linking group comprising a bond, a $-(CR_5=CR_6)_n-$ group, a $-CR_7=N-$ group, or an aromatic group, where R_5 , R_6 , and R_7 are, each independently, H, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group, and n is an integer between 1 and 10, inclusive; and

(b) a charge generating compound.

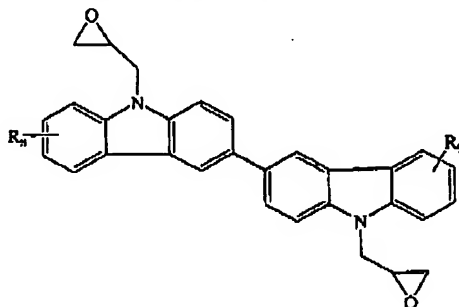
2. (Original) An organophotoreceptor according to claim 1 wherein Z is a bond.

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3. (Original) An organophotoreceptor according to claim 1 wherein X_1 and X_2 are, each independently, a methylene group.

4. (Original) An organophotoreceptor according to claim 1 wherein E_1 and E_2 are, each independently, an oxiranyl ring.

5. (Original) An organophotoreceptor according to claim 1 wherein the charge transport material is selected from the group consisting of the following formula:



where R_4 and R_5 are, each independently, H, hydroxyl, thiol, carboxyl, -CHO, a keto group, an amino group, cyano, nitro, a halogen, an alkoxyl group, an alkyl group, an alkenyl group, an epoxy group, a thiiranyl group, an aziridino group, a heterocyclic group, or an aromatic group.

6. (Original) An organophotoreceptor according to claim 1 wherein the photoconductive element further comprises a second charge transport material.

7. (Original) An organophotoreceptor according to claim 6 wherein the second charge transport material comprises an electron transport compound.

8. (Original) An organophotoreceptor according to claim 1 wherein the photoconductive element further comprises a binder.

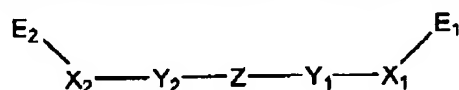
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9. (Original) An electrophotographic imaging apparatus comprising:

(a) a light imaging component; and

(b) an organophotoreceptor oriented to receive light from the light imaging component, the organophotoreceptor comprising an electrically conductive substrate and a photoconductive element on the electrically conductive substrate, the photoconductive element comprising:

(i) a charge transport material having the formula



where Y_1 and Y_2 comprise, each independently, a carbazolyl group;

X_1 and X_2 , each independently, have the formula $-(CH_2)_m-$, branched or linear, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups is optionally replaced by O, S, N, C, B, P, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, an amide group, an NR_3 group, a CR_4 , or a CR_5R_6 group where R_3 , R_4 , R_5 , and R_6 are, independently, a bond, H, hydroxyl, thiol, carboxyl, an amino group, an alkyl group, an alkenyl group, a heterocyclic group, an aromatic group, or part of a ring;

E_1 and E_2 comprise, each independently, an epoxy group; and

Z is a linking group comprising a bond, a $-(CR_5=CR_6)_n-$ group, a $-CR_7=N-$ group, or an aromatic group, where R_5 , R_6 , and R_7 are, each independently, H, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group, and n is an integer between 1 and 10, inclusive; and

(ii) a charge generating compound.

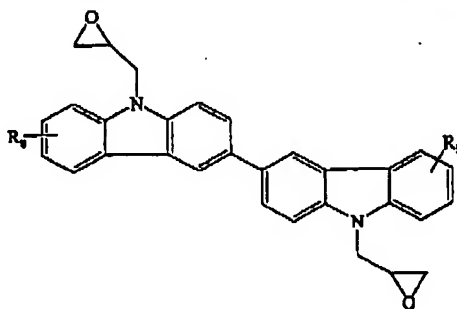
10. (Original) An electrophotographic imaging apparatus according to claim 9 wherein Z is a bond.

11. (Original) An electrophotographic imaging apparatus according to claim 9 wherein X_1 and X_2 are, each independently, a methylene group.

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12. (Original) An electrophotographic imaging apparatus according to claim 9 wherein E_1 and E_2 are, each independently, an oxiranyl ring.

13. (Original) An electrophotographic imaging apparatus according to claim 9 wherein the charge transport material is selected from the group consisting of the following formula:



where R_8 and R_9 are, each independently, H, hydroxyl, thiol, carboxyl, -CHO, a keto group, an amino group, cyano, nitro, a halogen, an alkoxyl group, an alkyl group, an alkenyl group, an epoxy group, a thiranyl group, an aziridino group, a heterocyclic group, or an aromatic group.

14. (Original) An electrophotographic imaging apparatus according to claim 9 wherein the photoconductive element further comprises a second charge transport material.

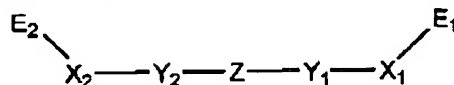
15. (Original) An electrophotographic imaging apparatus according to claim 14 wherein second charge transport material comprises an electron transport compound.

16. (Original) An electrophotographic imaging apparatus according to claim 9 further comprising a liquid toner dispenser.

17. – 25. (Cancelled).

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26. (Original) A charge transport material having the formula



where Y_1 and Y_2 comprise, each independently, a carbazolyl group;

X_1 and X_2 , each independently, have the formula $-(CH_2)_m-$, branched or linear, where m is an integer between 0 and 20, inclusive, and one or more of the methylene groups is optionally replaced by O, S, N, C, B, P, C=O, O=S=O, a heterocyclic group, an aromatic group, urethane, urea, an ester group, an amide group, an NR_3 group, a CR_4 , or a CR_5R_6 group where R_3 , R_4 , R_5 , and R_6 are, independently, a bond, H, hydroxyl, thiol, carboxyl, an amino group, an alkyl group, an alkenyl group, a heterocyclic group, an aromatic group, or part of a ring;

E_1 and E_2 comprise, each independently, an epoxy group; and

Z is a linking group comprising a bond, a $-(CR_5=CR_6)_n-$ group, a $-CR_7=N-$ group, or an aromatic group, where R_5 , R_6 , and R_7 are, each independently, H, an alkyl group, an alkenyl group, a heterocyclic group, or an aromatic group, and n is an integer between 1 and 10, inclusive.

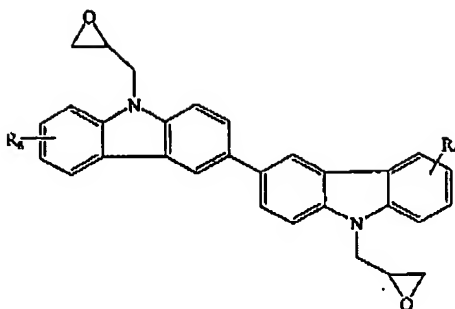
27. (Original) A charge transport material according to claim 26 wherein Z is a bond.

28. (Original) A charge transport material according to claim 26 wherein X_1 and X_2 are, each independently, a methylene group.

29. (Original) A charge transport material according to claim 26 wherein E_1 and E_2 are, each independently, an oxiranyl ring.

30. (Original) A charge transport material according to claim 26 wherein the charge transport material is selected from the group consisting of the following formula:

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where R₈ and R₉ are, each independently, H, hydroxyl, thiol, carboxyl, -CHO, a keto group, an amino group, cyano, nitro, a halogen, an alkoxy group, an alkyl group, an alkenyl group, an epoxy group, a thiranyl group, an aziridino group, a heterocyclic group, or an aromatic group.

31. - 41. (Cancelled).